Abhishek Prasad

List of Publications by Year
in descending order

25 papers	952 citations	758635 12 h-index	752256 20 g-index
25 all docs	25 docs citations	25 times ranked	1184 citing authors

#	ARTICLE	IF	CITATIONS
1	Comprehensive characterization and failure modes of tungsten microwire arrays in chronic neural implants. Journal of Neural Engineering, 2012, 9, 056015.	1.8	254
2	Abiotic-biotic characterization of Pt/Ir microelectrode arrays in chronic implants. Frontiers in Neuroengineering, 2014, 7, 2.	4.8	159
3	Quantifying long-term microelectrode array functionality using chronic *in vivo* impedance testing. Journal of Neural Engineering, 2012, 9, 026028.	1.8	127
4	Electrode impedance analysis of chronic tungsten microwire neural implants: understanding abiotic vs. biotic contributions. Frontiers in Neuroengineering, 2014, 7, 13.	4.8	67
5	Blood brain barrier (BBB)-disruption in intracortical silicon microelectrode implants. Biomaterials, 2018, 164, 1-10.	5.7	59
6	Decoding of finger trajectory from ECoG using deep learning. Journal of Neural Engineering, 2018, 15, 036009.	1.8	59
7	Neuroinflammation, oxidative stress, and blood-brain barrier (BBB) disruption in acute Utah electrode array implants and the effect of deferoxamine as an iron chelator on acute foreign body response. Biomaterials, 2019, 188, 144-159.	5.7	51
8	Common marmoset (Callithrix jacchus) as a primate model for behavioral neuroscience studies. Journal of Neuroscience Methods, 2017, 284, 35-46.	1.3	34
9	EEG-controlled functional electrical stimulation for hand opening and closing in chronic complete cervical spinal cord injury. Biomedical Physics and Engineering Express, 2018, 4, 065005.	0.6	18
10	Implantable brain–computer interface for neuroprosthetic-enabled volitional hand grasp restoration in spinal cord injury. Brain Communications, 2021, 3, fcab248.	1.5	18
11	A confidence metric for using neurobiological feedback in actor-critic reinforcement learning based brain-machine interfaces. Frontiers in Neuroscience, 2014, 8, 111.	1.4	16
12	Long-term stability of neural signals from microwire arrays implanted in common marmoset motor cortex and striatum. Biomedical Physics and Engineering Express, 2018, 4, 055025.	0.6	16
13	An adaptive brain actuated system for augmenting rehabilitation. Frontiers in Neuroscience, 2014, 8, 415.	1.4	14
14	Can motor volition be extracted from the spinal cord?. Journal of NeuroEngineering and Rehabilitation, 2012, 9, 41.	2.4	13
15	Characterizing the Impact of Sampling Rate and Filter Design on the Morphology of Lower Limb Angular Velocities. IEEE Sensors Journal, 2019, 19, 4115-4122.	2.4	10
16	Spinal cord neural interfacing in common marmosets (*Callithrix jacchus*). Journal of Neural Engineering, 2020, 17, 016031.	1.8	9
17	The complement cascade at the Utah microelectrode-tissue interface. Biomaterials, 2021, 268, 120583.	5.7	7
18	Therapeutic hypothermia reduces cortical inflammation associated with utah array implants. Journal of Neural Engineering, 2020, 17, 026035.	1.8	6

#	Article	IF	Citations
19	Design-development of an at-home modular brain–computer interface (BCI) platform in a case study of cervical spinal cord injury. Journal of NeuroEngineering and Rehabilitation, 2022, 19, .	2.4	5
20	Comprehensive characterization of tungsten microwires in chronic neurocortical implants. , 2012, 2012, 755-8.		4
21	Chronic recordings from the rat spinal cord descending tracts with microwires. , 2011, 2011, 2993-6.		3
22	Surface Modifications of an Organic Polymer-Based Microwire Platform for Sustained Release of an Anti-Inflammatory Drug. ACS Applied Bio Materials, 2020, 3, 4613-4625.	2.3	2
23	Extraction of error related local field potentials from the striatum during environmental perturbations of a robotic arm. , 2013, , .		1
24	Representation of natural arm and robotic arm movement in the striatum of a marmoset engaged in a two choice task. , 2013, , .		0
25	Chronic recordings from the marmoset motor cortex reveals modulation of neural firing and local field potentials overlap with macaques. Journal of Neural Engineering, 2021, 18, 0460b2.	1.8	0